

1 **WHAT IS CLAIMED IS:**

2 1. A clamping device for combined floors, wherein

3 the combined floors includes:

4 multiple bricks each having a first long side, a second long side
5 parallel to the first long side, a first short side and a second short side
6 respectively connecting two opposite ends of the first long side and the
7 second long side;

8 an L-shaped protrusion laterally extending from the first long
9 side and the first short side of the brick and an L-shaped groove laterally
10 defined in the second long side and the second short side of the brick for
11 partially receiving the L-shaped protrusion of two adjacent bricks;

12 a first groove defined laterally defined in the second long side
13 of the brick under the L-shaped groove and a second groove laterally
14 defined in the first long side of the brick under the L-shaped protrusion;
15 and

16 a first slot and a second slot respectively defined in a bottom of
17 the brick, wherein the first slot corresponds to the second long side of the
18 brick and the second slot corresponds to the first long side of the brick;

19 the clamping device includes:

20 multiple clamping seats each made of plastic material and
21 having a rectangular shape, the clamping seat including a protrusion with
22 a T-shaped cross-section upwardly extending therefrom, the protrusion
23 having two opposite topsides respectively received in the first groove and
24 the second groove of two adjacent bricks;

1 a first rib and a second rib respectively extending from a top of
2 the clamping seat and correspond to the two opposite topsides of the
3 protrusion;

4 a guider longitudinally extending from a first end of the
5 clamping seat corresponding to the second rib, the guider having two side
6 plates longitudinally connected to the clamping seat and a connecting
7 plate connected to two free ends of the two side plates;

8 a stub extending from the connecting plate toward the clamping
9 seat;

10 a wing laterally extending from the stub and connected to a
11 corresponding one of the two side plates of the guider;

12 a receiving space defined in a second end of the clamping seat
13 for longitudinally receiving the guider of the adjacent clamping seat, two
14 parallel sidewalls and a plate upwardly extending from a bottom of the
15 receiving space to define the receiving space;

16 an indentation defined in a top of each of the sidewalls and the
17 plate including two opposite sides each having a guiding groove defined
18 therein and corresponding to the two side plates of the guider so that the
19 two side plates of the guider of the adjacent clamping seat can be slidably
20 received in the two guiding groove;

21 a cylinder inwardly extending from the plate for receiving the
22 stub of the adjacent clamping seat;

23 a spring compressively received in the cylinder and the stub of
24 the adjacent clamping seat compressing the spring to enhance the

1 connection between the two adjacent clamping devices due to the
2 restitution force of the spring; and

3 a gap laterally defined in the cylinder and corresponding to the
4 wing so that the wing is slidably received in the gap of the adjacent
5 clamping seat to enhance the connection between the two adjacent
6 clamping devices; and

7 multiple lateral rods each straddled two parallel clamping seats, the
8 lateral rod including two opposite ends each having a hook longitudinally
9 extending therefrom, the two hooks respectively engaged to the indentation of a
10 corresponding one of the two parallel clamping seats to assure parallel relation
11 between the two parallel clamping seats.

12 2. The clamping device as claimed in claim 1, wherein the second rib of
13 the clamping seat is received in the second slot and the first rib of the clamping
14 seat is received in the first slot in the adjacent brick.

15 3. The clamping device as claimed in claim 1, wherein the clamping seat
16 further comprising a lever longitudinally extending from the connecting plate
17 opposite to the stub and having a stopper downward extending from the lever,
18 an aperture defined in the bottom of the receiving space for receiving the
19 stopper of the lever of the adjacent clamping seat for holding the adjacent
20 clamping seat in place.

21 4. The clamping device as claimed in claim 1, wherein each of the side
22 plates of the guider includes an engager inward laterally extending therefrom,
23 and a slit is laterally defined in the two opposite sides of the plate, each slit
24 communicating with a corresponding one of the two guiding groove and

1 corresponds to a corresponding one of the two engagers so that the two
2 engagers are respectively slidably received in the two slits for assuring the two
3 adjacent clamping seats in a horizontal condition.

4 5. The clamping device as claimed in claim 3, wherein each of the side
5 plates of the guider includes an engager inward laterally extending therefrom,
6 and a slit is laterally defined in the two opposite sides of the plate, each slit
7 communicating with a corresponding one of the two guiding groove and
8 corresponds to a corresponding one of the two engagers so that the two
9 engagers are respectively slidably received in the two slits for assuring the two
10 adjacent clamping seats in a horizontal condition.

11 6. The claiming device as claimed in claim 1, wherein the brick is
12 wooden.